WETRAVELO : FLIGHT BOOKING PORTAL

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Abstract: This artifact examines the likelihood of reservation airline tickets and accommodation services electronically via the use of the internet. The use of more user-friendly and convenience bookings with integrations of GDS-API which will provide a hassle-free booking with more added features that are not usually provided by other platforms. GDS API is used for booking flights worldwide from a single interface. A complete booking cycle will be created from booking the ticket to the cancellation of tickets.

Keywords: Airline booking system; electronic tickets; booking flights; we travel.

I. INTRODUCTION
It is so obvious that everything around us that is sustainable will go through advancement. The advancement of technology in every field has made us take a time leap in the upcoming, where in today’s biosphere every model is now backed up by Data and message expertise. This is so seeming in every detail of our lives and the airline industry is not excluded. Travelling has been so common not only for business purposes as well as for pleasure. The airline industry has made it possible to travel across a thousand miles in hours. The airline industry controls the world of travel. People in the sake of saving their valuable time prefer air travel. It has managed to connect to geographical distance very far away in hours. In traditional days it was a complicated process when we had to visit a travel agent and every booking is made using phone calls. Nowadays it’s not the case with the availability of web tools and platforms that helps to generate a complete booking process to payment has made our work a lot easier than traditional ways. Now anyone can book a ticket with the help of the internet using a smartphone or a laptop/pc and it is the most trusted way and even it saves a lot of time.[1]

The era of Computer reservation system or generally a CRS in the field of Airline began back in the 1970s, with the advancement of technology the airline industry also updated, maintained and modified their reservation systems to generate more revenue in the industry. The reservation portal provides all the necessary information schedules, fares, seat availability, etc. that a user needs while booking a flight. [2]

A great majority of these airline industries have an automated online web-based system or they provide APIs that help to book a seat in an airline. It is because the number of persons such as frequent travelers, business travelers, etc. is inclined to facilitate their booking process by online-based systems that help in generating airline tickets.[3]

Most of us prefer air travel if the distance is big and also to save a lot of time in our busy schedule life. And nowadays people generally don’t prefer a travel agent to book a ticket. We all have the internet and we are becoming more digital in most cases. when it comes to reserve a seat in the flight. We usually come up with a limited number of platforms for booking and their offers and we have fewer platforms also to compare prices and get a good deal in the reservation of seats.

Using GDS’s API we are building a portal for the ease of travelers to search and book flights at a better price rate compared to other provided platforms.

The users will not be charged unless they get a confirmed booking unlike other platforms like MakeMyTrip which charges users beforehand and in case of users do not get a booking, they
have to wait for the refund cycle. But here will not be that case.

II. Architecture Model for Wetravelo

Architecture Model for a Flight booking system can serve as a guideline for booking flights on a flight booking system by an end-user.

III. Materials and Methodology

Online reserving structures are supposed to assist one search for and e book tour excursions by way of the Internet and naturally hold song of the reputation and development of one’s bookings. thanks to the fast improvement of technology, historic methods of receiving and changing statistics are being changed with the aid of more recent and greater state-of-the-art ones. inside the sphere of tourism, receiving statistics by way of phone and reserving by fax and e-mail is turning into a remember of the past. [4]

It's based on the GDS-Api booking system. We will know a summary of how GDSs works.

GDSs are usually linked to the coronary heart of the Airline's income applied sciences Central Reservation Systems or CRSs. The CRSs is a software program application that manages seat reservation on the airline site. Once a GDS requests a seat, the CRS distributes a seat to it however it doesn’t cowl the scheduling facts and pricing. To set time tables and prices, airways need to join to two specific third events at the identical time.

- Users will provide and set the information panel with the following parameters like dates, seat availability, number of passengers, direction etc.
- The client/user will be provided with all the information related to the search query. The listing of flights will come in ascending order. i.e. from the most inexpensive to the most highly-priced tickets and choices the most appropriate alternative.
- Then after choosing the preferred flight and seats, customers will be redirected to the buy page, the place all the applicable facts is to be supplied (the passenger’s name, etc); accompanied by way of the fee choice the place customers can select from a extensive vary of charge options. In the end, the users will be provided with the booking confirmation[5]

The Interface will be user-friendly and it has been developed in a sustainable platform.

Web Servers - Web Applications - clients
JavaScript, Database Server My SQL Apache Server PHP, ASP.net Language.

The interface is gentle and yet provides all the information from searching and scheduling a flight.
The user must have to sign in to get a reservation for the flight and actions (booking, payment, ticket history, etc) will be executed.

**Fig. III**

The sign-in page ensures your safety, as well as payment methods and gateways, will be highly encrypted with the more updated, secure and reliable technologies.

**Fig. IV**

Keeping in mind a user friendly and a portal that provides with all the necessary information generally a user requires through his booking journey. The output of our portal is depicted in the figures below.
The user interface has been designed responsive and attractive.

The user can navigate through (Account - Home - Wallet) in a single window.

The above Fig. VII & VIII respectively show how users can navigate through multiple options like one way, round trip, multi city option. User will have to enter information regarding his trip. Details like schedule, departure, passenger information, etc.
V. Conclusion

Back in the 60s, making a flight reservation will include a couple of peoples and a mainframe laptop computer to process. American Airlines and IBM made an computerized flight reserving desktop the use of the IBM 7090 computer. It used to be placed in New York and housed all flight reservation data. That computer used to be linked to 50000 American airways a long way off terminal at some point of the country. To make a reservation you desired to contact a tour agent who then reached the airline with the resource of mobile phone to reserve a seat. That desktop may also choose to manner up to 84000 bookings every and each and every single day. Its full discover bought right here out to be a Semi-Automatic business corporation look up environment or SABRE.

Later comparable computer systems had been adopted by using most carriers and SABRE grew to become the main flight distribution company in the world. This was the beginning of the Era of the Global distribution system or GDS.

Today GDSs are massive flight aggregators, they gather flights from about four hundred airways and distribute them throughout journey groups the use of their software programming interfaces or APIs. Using GDS’s API we are building a portal for the ease of travelers to search and book flights at a better price rate compared to other provided platforms.

VI. References

[4]. Internet Commerce. The Amadeus Russia Portal.Ebu